

APPENDIX A

%!

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% PostScript program to illustrate tiling. Tiles the page in

% userspace and snap each tile to the largest clipping rectangle

% that contains all of the pixels in device space. Image the entire

% document with each tile set as a clipping rectangle. No stitching

10 % errors will appear.

% Control the tilesize and overlap by setting stepx,stepy and

% overlap.

% Put your test file in this procedure.

% NOTE: Verify that your testfile does not use initclip or

15 % initgraphics or any graphics operator that resets the pagedevice.

/DrawTestFile { (dancers.eps) run } bind def

% userspace step in x and y direction for tiling

% This creates 72 point or 1 inch squares

20 /stepx 72 def

/stepy 72 def

% tile overlap in userspace coordinates

% This creates 1/72 of an inch overlaps

25 /overlap 1 def

% get extents of the page to print

currentpagedevice /PageSize get (PageSize is) print dup == aload pop

/maxy exch def

30 /maxx exch def

% remember the default matrix

/defmatrix matrix currentmatrix def

35 % computeclip - convert clippath in userspace to device space

% coordinates. Modify to the nearest whole pixel included

% in the clipping path.

/computeclip % x1 y1 x2 y2 computeclip x1 y1 delx dely

```

{
  4 -2 roll      % x2 y2 x1 y1
  transform ceiling exch ceiling exch % x2 y2 x1' y1'
  4 -2 roll      % x1' y1' x2 y2
5  transform floor exch floor exch    % x1' y1' x2 y2

  2 index sub    % x1' y1' x2' dely
  exch           % x1' y1' dely x2'
  3 index sub    % x1' y1' dely delx
10  exch         % x1' y1' delx dely
} bind def

```

```

% image the page through each tile by creating overlapping
% rectangles and then snapping them to the physical grid

```

```

15 0 stepx maxx {
    /curx exch def
    0 stepy maxy {
        /cury exch def
        /cursave save def

20      % compute the expanded tile
        curx overlap sub
        cury overlap sub
        curx stepx add overlap add
        cury stepy add overlap add
25      % snap the tile to the grid
        computeclip

        (rectclip is ) print 4 array astore dup == flush aload pop

30      % move into device coordinates
        [ 1 0 0 1 0 0 ] setmatrix
        rectclip

35      /showpage { } bind def
        % can also redefine initclip, initgraphics and setpagedevice
        defmatrix setmatrix
        DrawTestFile

```

```

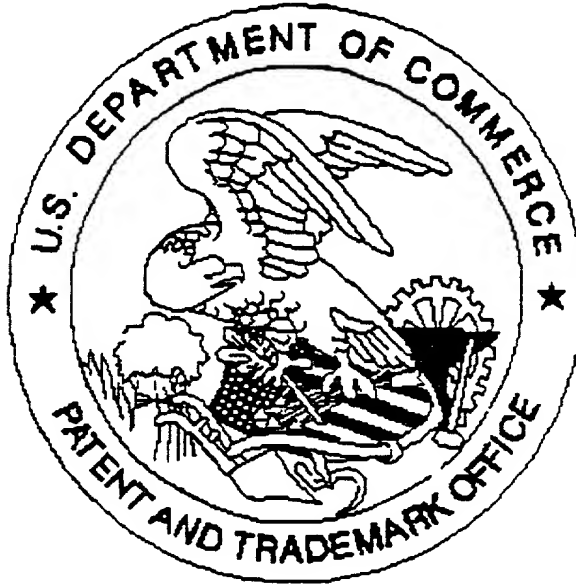
        cursave restore
    } for
} for

```

5 showpage

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